

Rexar Technical Compound Datasheet

Product Name: Methylene Blue
Chemical Name: Methylthioninium chloride
CAS Number: 7220-79-3
PubChem CID: 6099

Synonyms:

- Methylthioninium chloride
- Basic Blue 9
- CI 52015
- Tetramethylthionine chloride

Chemical Information

- Molecular Formula: C₁₆H₁₈ClN₃S
- Molecular Weight: 319.85 g/mol
- IUPAC Name: 3,7-bis(dimethylamino)-phenothiazin-5-ium chloride
- SMILES: CN(C)c1ccc2c(c1)sc-3cc(=N+C)ccc3n2.[Cl-]
- InChIKey: CXKWCBBOMKCUKX-UHFFFAOYSA-M
- Appearance: Dark green crystalline powder producing a deep blue solution in water
- Solubility: Soluble in water and alcohol

Applications

- Analytical reference compound for phenothiazine dyes
- Method development and comparative studies in analytical chemistry
- Compound profiling and material characterization in laboratory environments

Storage & Handling

- Storage Temperature: 15–25 °C
- Environment: Dry, cool and protected from light
- Handling: Use standard laboratory safety procedures
- Packaging: Supplied in sealed laboratory containers

Additional Notes

- Provided without functional or biological claims
- Intended exclusively for analytical, chemical and technical applications
- For structural and reference data see: <https://pubchem.ncbi.nlm.nih.gov/compound/6099>